

Razamid® B121U-51

Polyamide 6

Razin™ Engineering Plastics

Message:

Razamid B121U-51 is an Injection grade impact modified black color polyamide 6 resin. It combines good strength, stiffness and toughness as well as excellent heat, chemical and abrasion resistance.

General Information			
Additive	Impact Modifier		
Features	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Impact Resistance		
	Good Stiffness		
	Good Strength		
	Good Toughness		
	High Heat Resistance		
	Impact Modified		
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.90	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	60.0	MPa	ASTM D638
Tensile Elongation (Break)	20	%	ASTM D638
Flexural Modulus	2000	MPa	ASTM D790
Flexural Strength	95.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Area) (23°C)	15.0	kJ/m ²	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	190	°C	ASTM D648
Vicat Softening Temperature	200	°C	ASTM D1525
Peak Melting Temperature	250	°C	ASTM D3418
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+13	ohms · cm	IEC 60093
Dielectric Strength	20	kV/mm	ASTM D149
Injection	Nominal Value	Unit	
Drying Temperature	90.0 to 110	°C	

Drying Time	2.0 to 4.0	hr
Rear Temperature	260 to 280	°C
Middle Temperature	265 to 300	°C
Front Temperature	275 to 305	°C
Processing (Melt) Temp	275 to 310	°C
Mold Temperature	50.0 to 80.0	°C
Injection Pressure	55.0 to 140	MPa

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